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Appl. No. 10/760,139

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. Please cancel claims 1-11, and add new claim 22 as follows:

Listing of Claims:

Claims 1-11. (Cancelled)

12. (Previously Presented) A device for manipulating particles using dielectrophoresis, the device comprising:

- a substrate across which the particles move;
- a radial array of insulating features on the substrate; and
- a plurality of electrodes positioned to generate a spatially non-uniform electric field across the array of insulating features.

13. (Original) A device according to claim 12, wherein the insulating features comprise posts, and the diameter of the posts increases according to their radial position in said radial array.

14. (Previously Presented) A method for manipulating particles using dielectrophoresis, the method comprising:

- passing a sample fluid containing the particles across a non-uniform array of insulating features;

- generating a spatially non-uniform electric field, the spatially non-uniform electric field exerting a dielectrophoretic force on the particles thereby constraining motion of at least one particle while avoiding suppression of electroosmotic flow of the sample fluid; and

- trapping at least one particle at a location in the non-uniform array, wherein the location is determined at least in part based on electric and geometrical properties of the particle.

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